

CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2006	National Electrical Code	2005
International Mechanical Code	2006	Uniform Code for	
International Plumbing Code	2006	Building Conservation	
International Fire Code	2006	ADA Accessibility	
International Energy		Guidelines	
Conservation Code	2006		

A. Occupancy and Group: _____ **EXISTING** _____
Change in Use: Yes _____ No ☒ Mixed Occupancy: Yes _____ No ☒
Special Use and Occupancy (e.g. High Rise, Covered Mall): _____

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):
 I I II **II** III IV V V
 A B A B A HT A B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: _____ South: _____ East: _____ West: _____

E. Mixed Occupancies: _____ Nonseparated Uses: _____

F: Sprinklers:
Required: _____ Provided: _____ Type of Sprinkler System: _____

G: Number of Stories: _____ Building Height: _____

H: Actual Area per Floor (square feet): _____

I: Tabular Area: _____

J: Area Modifications:
a) $A_a = A_t + \left[\frac{A_t I_f}{100} \right] + \left[\frac{A_t I_s}{100} \right]$ $I_f = 100 \left[\frac{F}{P} - 0.25 \right] \frac{W}{30}$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$

c) Total Allowable Area for:
1) One Story: _____
2) Two Story: $A_a(2)$ _____
3) Three Story: $A_a(3)$ _____

d) Unlimited Area Building: Yes _____ No _____ Code Section: _____

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls			Floors - Ceiling Floors		
Interior Bearing Walls			Roofs - Ceiling Roofs		
Exterior Non-Bearing Walls			Exterior Doors and Windows		
Structural Frame			Shaft Enclosures		
Partitions - Permanent			Fire Walls		
Fire Barriers			Fire Partitions		
			Smoke Partitions		

L. Design Occupant Load: _____
Exit Width Required: _____ Exit Width Provided: _____

M. Minimum Number of Required Plumbing Facilities:
a) Water Closets - Required (m) _____ (f) _____ Provided (m) _____ (f) _____
b) Lavatories - Required (m) _____ (f) _____ Provided (m) _____ (f) _____
c) Bath Tubs or Showers: _____
d) Drinking Fountains: _____ Service Sinks: _____

FOOTNOTES:
1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through V - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

UTAH DEPARTMENT OF TRANSPORTATION CALVIN
RAMPTON BLDG CAFETERIA ROOFTOP HVAC UNIT
REPLACEMENT
DFCM PROJECT #07237900



State of Utah—Department of Administrative Services

DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT

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DRAWING INDEX:


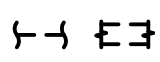
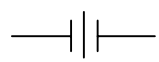
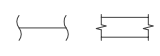

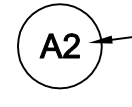
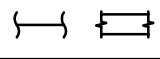

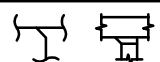
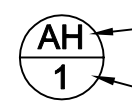
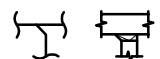
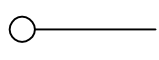
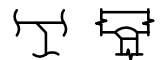

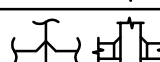
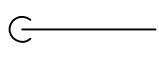
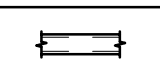
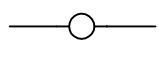

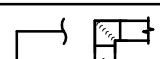
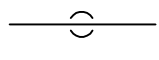
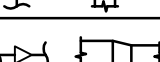
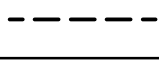

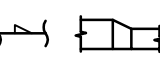
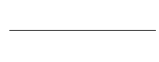


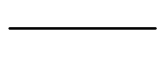


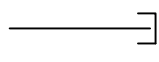


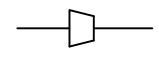

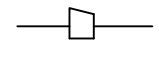

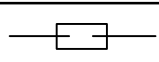
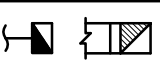
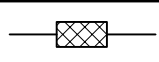
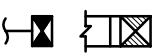
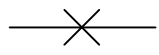
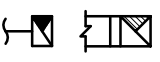

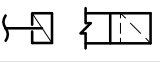



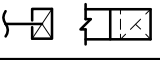
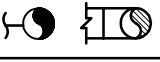
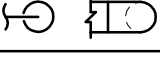
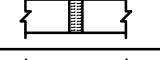
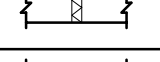


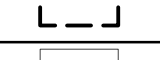
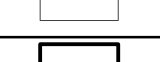
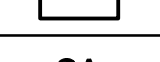
M000 TITLE SHEET
M001 MECHANICAL GENERAL NOTES AND LEGEND
MD101 MECHANICAL DEMOLITION PLAN
ME101 MECHANICAL ROOF PLAN
ME601 MECHANICAL SCHEDULES AND DETAILS

D

C

B

A

MECHANICAL LEGEND									
SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION	SYMBOL	ABR.	DESCRIPTION	
GENERAL TERMINOLOGY			AIR SIDE			WET SIDE			
		SECTION LETTER DESIGNATION			EXISTING AIR DUCT TO BE REMOVED			UNION	
		SECTION DRAWN ON THIS SHEET			EXISTING AIR DUCT TO REMAIN			MANUAL ACTUATOR (BALL, BUTTERFLY, NEEDLE, ETC. VALVES)	
		DETAIL NUMBER DESIGNATION CORRESPONDING WITH GRID LOCATION			NEW AIR DUCT				MANUAL ACTUATOR (GATE, GLOBE, S&D, OS&Y, ETC. VALVES)
					RECT. TO RECT. AIR DUCT TAKE-OFF				
		MECHANICAL EQUIPMENT DESIGNATION			RECT. TO RND. AIR DUCT TAKE-OFF			ELBOW UP	
		EQUIPMENT ITEM DESIGNATION			RND. TO RND. AIR DUCT TAKE-OFF				
		REGISTER, GRILL OR DIFFUSER DESIGNATION WITH BALANCING CFM LISTED BELOW			RECT. TAKE-OFF AT END OF MAIN			ELBOW DOWN	
					LINED DUCT			TEE UP	
		GRILLE, OR LOUVER DESIGNATION WHERE BALANCING NOT REQUIRE			VANED ELBOW			TEE DOWN	
					CONCENTRIC DUCT TRANSITION			EXISTING PIPING TO BE REMOVED	
		REVISION DESIGNATOR AND NUMBER			ECCENTRIC DUCT TRANSITION			EXISTING PIPING TO REMAIN	
		KEY NOTE DESIGNATOR AND NUMBER			FLEXIBLE AIR DUCT			NEW PIPING	
	POC	POINT OF CONNECTION			VOLUME DAMPER			PIPE CAP OR PLUG	
	POR	POINT OF REMOVAL			SUPPLY AIR DIFFUSER			CONCENTRIC REDUCER	
AFF		ABOVE FINISHED FLOOR			RETURN AIR, FRESH AIR, AND TRANSFER AIR			ECCENTRIC REDUCER	
AP		ACCESS PANEL			CEILING MOUNTED EXHAUST FAN OR EXHAUST GRILLE			EXPANSION JOINT	
CL		CENTER LINE ELEVATION			RETURN OR OUTSIDE AIR DUCT UP			FLEXIBLE CONNECTION	
INV. ELEV.		INVERT ELEVATION			SUPPLY DUCT UP			ANCHOR POINT	
GC		GENERAL CONTRACTOR			EXHAUST AIR INTAKE UP			HEATING WATER SUPPLY	
MC		MECHANICAL CONTRACTOR			RETURN OR OUTSIDE AIR DUCT DOWN			HEATING WATER RETURN	
					SUPPLY DUCT DOWN			EQUIPMENT DRAIN	
					EXHAUST DUCT DOWN				
					ROUND DUCT UP				
					LOWER DUCT DOWN				
					FLEXIBLE DUCT CONNECTION				
					FILTER BANK				
					COIL				
				AP	ACCESS PANEL				
					EXISTING EQUIPMENT TO BE REMOVED				
					EXISTING EQUIPMENT TO REMAIN				
					NEW EQUIPMENT				
			SA		SUPPLY AIR				
			RA		RETURN AIR				
			EA		EXHAUST AIR				
			OA		OUTSIDE AIR				
			MA		MIXED AIR				
			FA		FRESH AIR				
			RF		RELIEF AIR				

GENERAL NOTES:

G-1

MECHANICAL INFORMATION IS NOT LIMITED TO THE MECHANICAL DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR INFORMATION ON ALL OTHER CONSTRUCTION DOCUMENTS INCLUDING DRAWINGS BY OTHER DISCIPLINES AND SPECIFICATIONS.

A - EACH DRAWING SHEET AND THE SPECIFICATIONS HAVE BEEN PREPARED TO SUPPLEMENT EACH OTHER AND THEY SHALL BE INTERPRETED AS AN INTEGRAL UNIT WITH ITEMS SHOWN AND NOTED ON ONE AND NOT THE OTHER BEING FURNISHED AND INSTALLED AS THOUGH SHOWN AND CALLED OUT IN ALL PLACES. ITEMS IN SPECIFICATIONS OR DRAWINGS LISTED WHICH ARE DIFFERING IN EFFICIENCY OR QUALITY SHALL BE HELD TO THE GREATEST OF: EFFICIENCY, QUALITY OR GOVERNING CODE.

B - THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE INSTALLATION OF THE SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF THE CONTRACT DOCUMENTS.

C - THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT WITH PROPER SERVICE ACCESS AND CLEARANCES ACCORDING TO MANUFACTURERS RECOMMENDATIONS. THE CONTRACTOR SHALL REVIEW SUPPLIERS BID PACKAGES FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS, SCHEDULES, AND DESIGN INTENT (ALL EQUIPMENT AND METHODS). THE CONTRACTOR SHALL REMOVE AND REINSTALL CORRECTLY AT HIS OWN EXPENSE ANY EQUIPMENT NOT IN COMPLIANCE.

D - THE CONTRACTOR SHALL CONSULT MANUFACTURERS INSTALLATION INSTRUCTIONS FOR SIZES, METHODS, ACCESSORIES, AND CLEARANCES IN SPACE AVAILABLE PRIOR TO BIDDING PROJECT.

E - ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO THE ENGINEER IN WRITING.

G-2

ANY AND ALL ALTERATIONS TO THE SYSTEM SHOWN SHALL BE THE RESPONSIBILITY OF THIS CONTRACTOR. ARCHITECT SHALL BE NOTIFIED IN WRITING PRIOR TO CHANGES.

G-3

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND LOCATIONS.

G-4

THE WORKING DRAWINGS ARE DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND, OR ELBOW NECESSARY FOR THE COMPLETE INSTALLATION IN THE SPACE PROVIDED. ALL LOCATIONS FOR MECHANICAL EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL DRAWINGS. THE CONTRACTOR SHALL PROVIDE OR COORDINATE WITH THE GENERAL CONTRACTOR PROVISIONS FOR BLOCKOUTS OR CORE DRILLS THROUGH STRUCTURE.

G-5

THE INSTRUCTION TO "PROVIDE" ALSO INCLUDES INSTALLATION.

G-6

SHEET METAL DUCT SIZES SHOWN ON DRAWINGS ARE FREE AREA DIMENSIONS.

G-7

PROVIDE TURNING VANES IN ALL ELBOWS OF RECTANGULAR DUCT.

G-8

THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY IN HANDLING AND DISPOSING OF REFRIGERANTS, OILS, ETC. ALL SUCH MATERIALS SHALL BE HANDLED, DISPOSED, AND USED IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL LAWS.

G-9

THE MECHANICAL CONTRACTOR SHALL VERIFY MOTOR VOLTAGES WITH THE ELECTRICAL DRAWING BEFORE ORDERING MOTORIZED EQUIPMENT AND CONTROLS.

G-10

C.F.M. LISTED IS ACTUAL AIR.

G-11

SUPPLIERS SHALL REVIEW ALL DRAWINGS AND THE SPECIFICATIONS PRIOR TO SUBMITTING PRICES TO THE CONTRACTOR. ALL QUESTIONS AND DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION PRIOR TO BIDDING.

G-12

CONTRACTOR SHALL THOROUGHLY REVIEW AND SIGN SUBMITTALS FOR COMPLETENESS AND COMPLIANCE TO THE SPECIFICATIONS PRIOR TO ENGINEERS REVIEW. SUPPLIERS SHALL HIGHLIGHT OR MARK ALL INFORMATION REQUIRED TO SHOW COMPLIANCE TO THE SPECIFICATIONS. ALL REQUESTED EXCEPTIONS TO THE SPECIFICATIONS, OR SCHEDULES SHALL BE CLEARLY NOTED AND EXPLAINED. SUBMITTAL REVIEW AND ACCEPTANCE IS FOR DESIGN CONCEPT ONLY, AND DOES NOT AT ANY TIME RELIEVE THE CONTRACTOR OF RESPONSIBILITY TO MEET SPECIFICATIONS, CAPACITIES, OR DESIGN INTENT.

G-13

ALL MECHANICAL SHALL BE INSTALLED AND CONFORM TO THE 2006 EDITION OF THE IMC WITH UTAH ANNOTATIONS AND LOCAL AUTHORITY REQUIREMENTS.

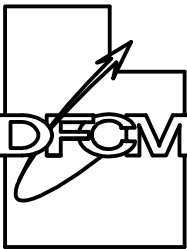
G-14

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE DRAINING DOWN AND RE-FILLING OF ALL SYSTEMS NECESSARY TO COMPLETE THE WORK OUTLINED BY THIS PROJECT. THIS INCLUDES PROVIDING THE REQUIRED CHEMICAL TREATMENT WHEN RE-FILLING THE SYSTEM.

G-15

CONTRACTOR SHALL CONTRACT WITH A DESIGN BUILD ELECTRICAL CONTRACTOR TO PROVIDE THE DESIGN AND INSTALLATION OF THE ELECTRICAL PORTION OF THIS PROJECT. THIS INCLUDES RECONNECTION OF THE NEW ROOFTOP UNIT.

State of Utah
Department of Administrative Services



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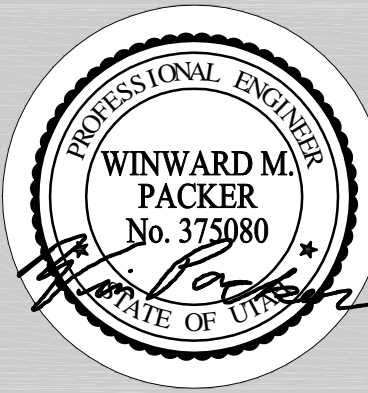
PROJECT NAME & ADDRESS

**UTAH DEPARTMENT
OF TRANSPORTATION
CALVIN RAMPTON
BLDG CAFETERIA
ROOFTOP HVAC UNIT
REPLACEMENT
DFCM No. 07237900**

4500 So. 2700 W.

MARK	DATE	REVISION

PROJECT MANAGER:
WP
DRAWN BY:
STAFF
CHECKED BY:
SLW
DATE:
10/02/2007
WHW JOB NO.:
07035

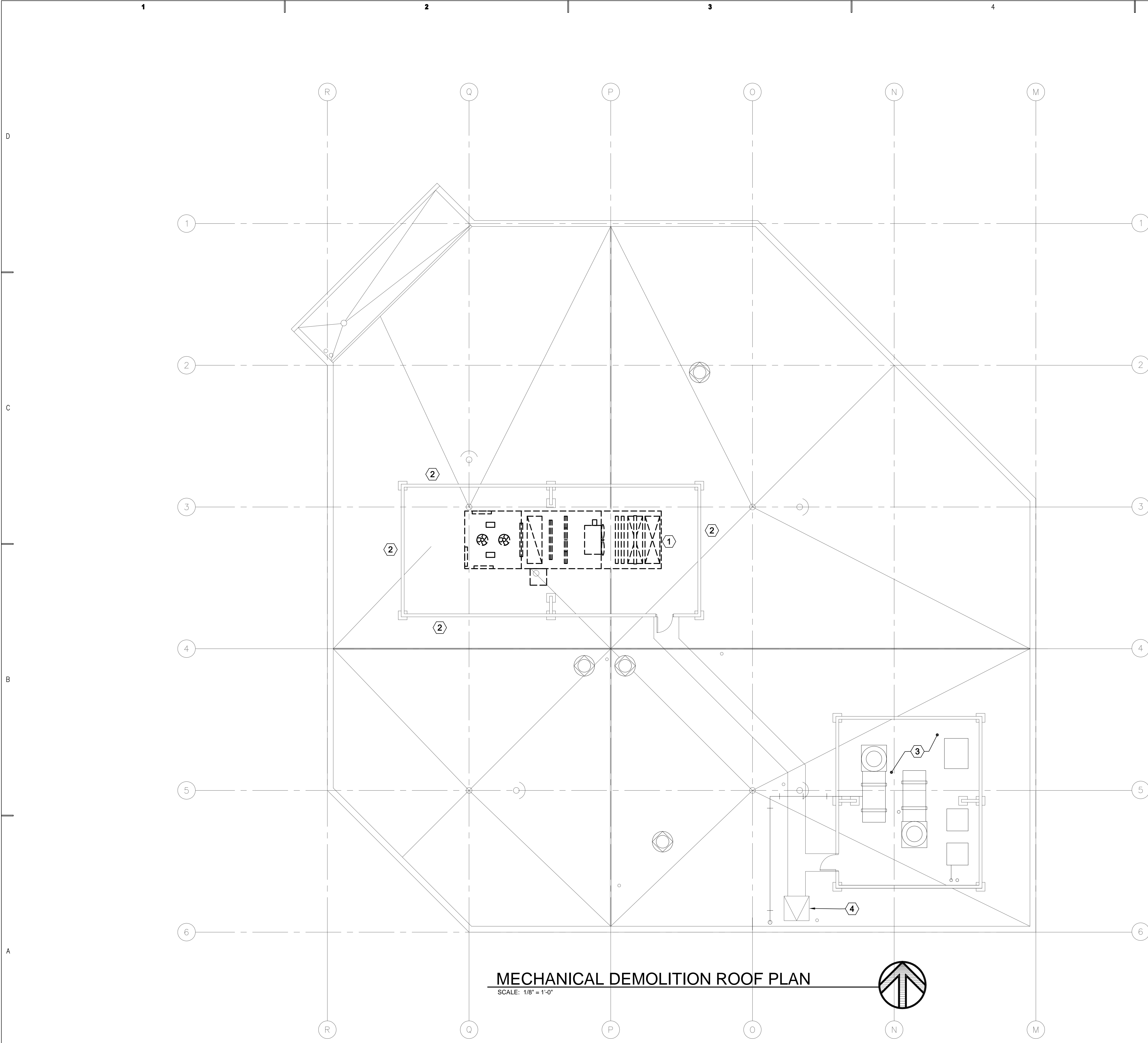


SHEET TITLE

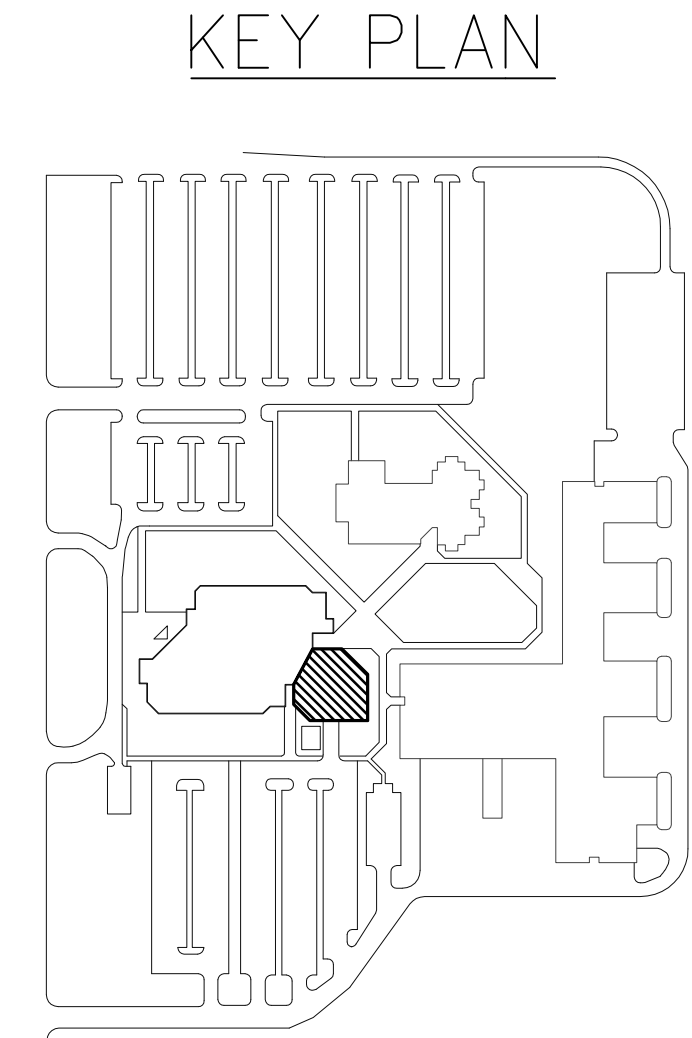
**MECHANICAL GENERAL
NOTES AND LEGENDS**

SHEET NO.

M001



- SHEET NOTES:**
- 1 REMOVE EXISTING ROOFTOP UNIT. CAP & PROTECT PIPING, ELECTRICAL, DUCTWORK, CONTROLS, ETC. AS NECESSARY FOR RE-CONNECTION TO NEW UNIT.
 - 2 EXISTING EQUIPMENT SCREEN WALL SHALL REMAIN. PROTECT DURING CONSTRUCTION.
 - 3 EXISTING EQUIPMENT, SCREEN WALL, ETC. THIS AREA SHALL REMAIN.
 - 4 EXISTING ROOF ACCESS.



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CHECKED BY:
SLW

DATE:
10/02/2007

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07035



**MECHANICAL DEMOLITION
ROOF PLAN**

SHEET NO.

MD101

1

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D

C

B

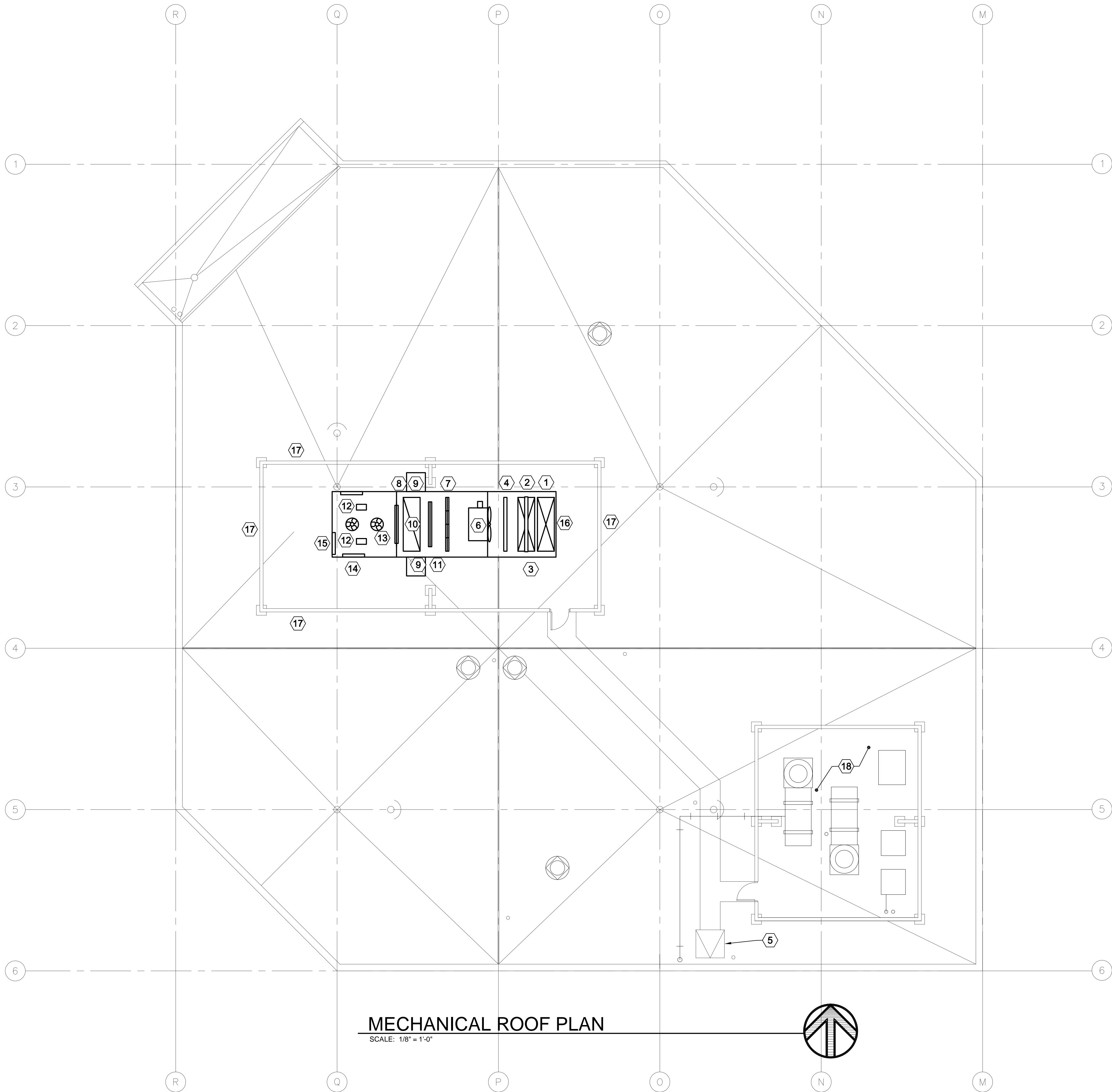
A

1

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4



MECHANICAL ROOF PLAN

SCALE: 1/8" = 1'-0"

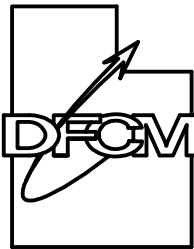
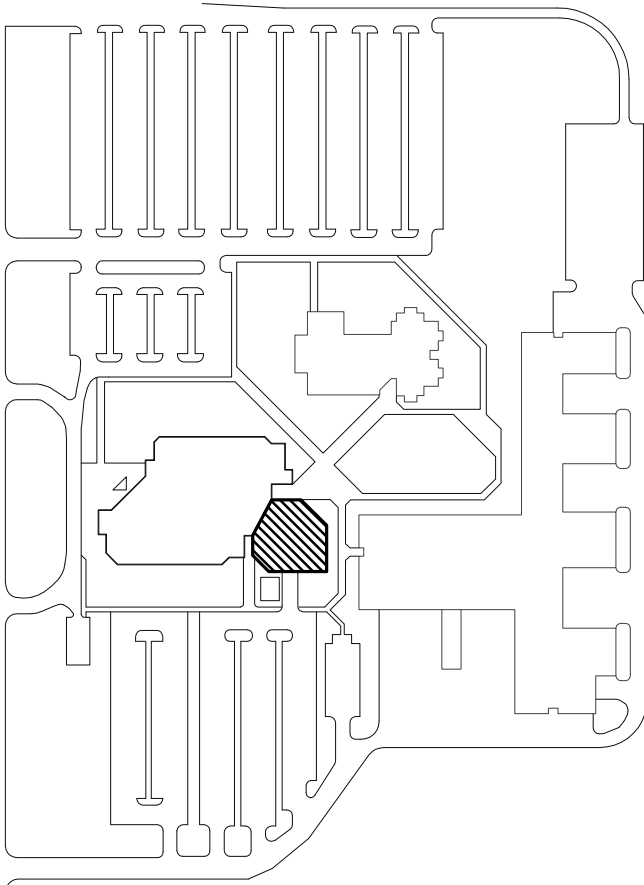
SHEET NOTES:

- 1 HOT DECK OPENING. RE-CONNECT TO EXISTING DUCTWORK.
- 2 COLD DECK OPENING. RE-CONNECT EXISTING DUCTWORK.
- 3 UPPER HOT DECK HW COIL. RE-CONNECT TO EXISTING HOT WATER SUPPLY AND RETURN.
- 4 3/4 HIGH DX COIL.
- 5 EXISTING ROOF ACCESS.
- 6 SUPPLY FAN WITH INTERNAL SPRING ISOLATORS.
- 7 FILTER SECTION WITH 2" PLEATED FILTERS..
- 8 O/A UPPER AND R/A LOWER.
- 9 O/A HOODS.
- 10 96"X30" RETURN AIR. RE-CONNECT TO EXISTING DUCTWORK.
- 11 EXHAUST AIR.
- 12 PACKAGED COMPRESSORS.
- 13 CONDENSER FANS.
- 14 CONDENSING COIL.
- 15 ELECTRICAL PANEL. RE-CONNECT TO EXISTING ELECTRICAL AND CONTROLS.
- 16 PROVIDE NEW PACKAGED DX COOLED, DUAL DUCT ROOFTOP UNIT WITH HOT WATER HEATING COIL. MOUNT NEW UNIT ON EXISTING CURB. RE-CONNECT ALL DUCTWORK, PIPING, ELECTRICAL, CONTROLS, ETC. FIELD VERIFY EXACT SIZE AND LOCATION OF EXISTING CURB, CONNECTIONS, ETC. PRIOR TO ORDERING.
- 17 EXISTING SCREEN WALL SHALL REMAIN. PROTECT DURING CONSTRUCTION.
- 18 EXISTING EQUIPMENT, SCREEN WALL, ETC. THIS AREA SHALL REMAIN.

GENERAL NOTES:

1. FIELD VERIFY EXACT LOCATIONS, DIMENSIONS, CONDITIONS, ETC. OF EXISTING SYSTEMS PRIOR TO ORDERING, DEMOLISHING, FABRICATING, ETC.
2. THIS CONTRACTOR SHALL KEEP THE BUILDING WEATHER TIGHT THROUGHOUT THE PROJECT.
3. SYSTEM SHUT-DOWNS SHALL BE COORDINATED WITH OWNER AND USERS. THIS CONTRACTOR SHALL BE RESPONSIBLE TO PROTECT AGAINST FREEZING CONDITIONS DURING CHANGE-OUT.
4. UNIT CHANGE OVER SHALL BE DONE ON A FRIDAY THROUGH SUNDAY.

KEY PLAN



CONSULTANTS



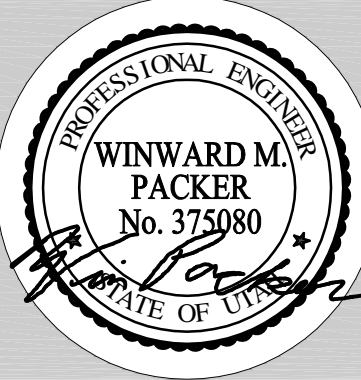
PROJECT NAME & ADDRESS

**UTAH DEPARTMENT
OF TRANSPORTATION
CALVIN RAMPTON
BLDG CAFETERIA
ROOFTOP HVAC UNIT
REPLACEMENT
DFCM No. 07237900**

4500 So. 2700 W.

MARK	DATE	REVISION

PROJECT MANAGER:
WP
DRAWN BY:
STAFF
CHECKED BY:
SLW
DATE:
10/02/2007
WHW JOB NO.:
07035




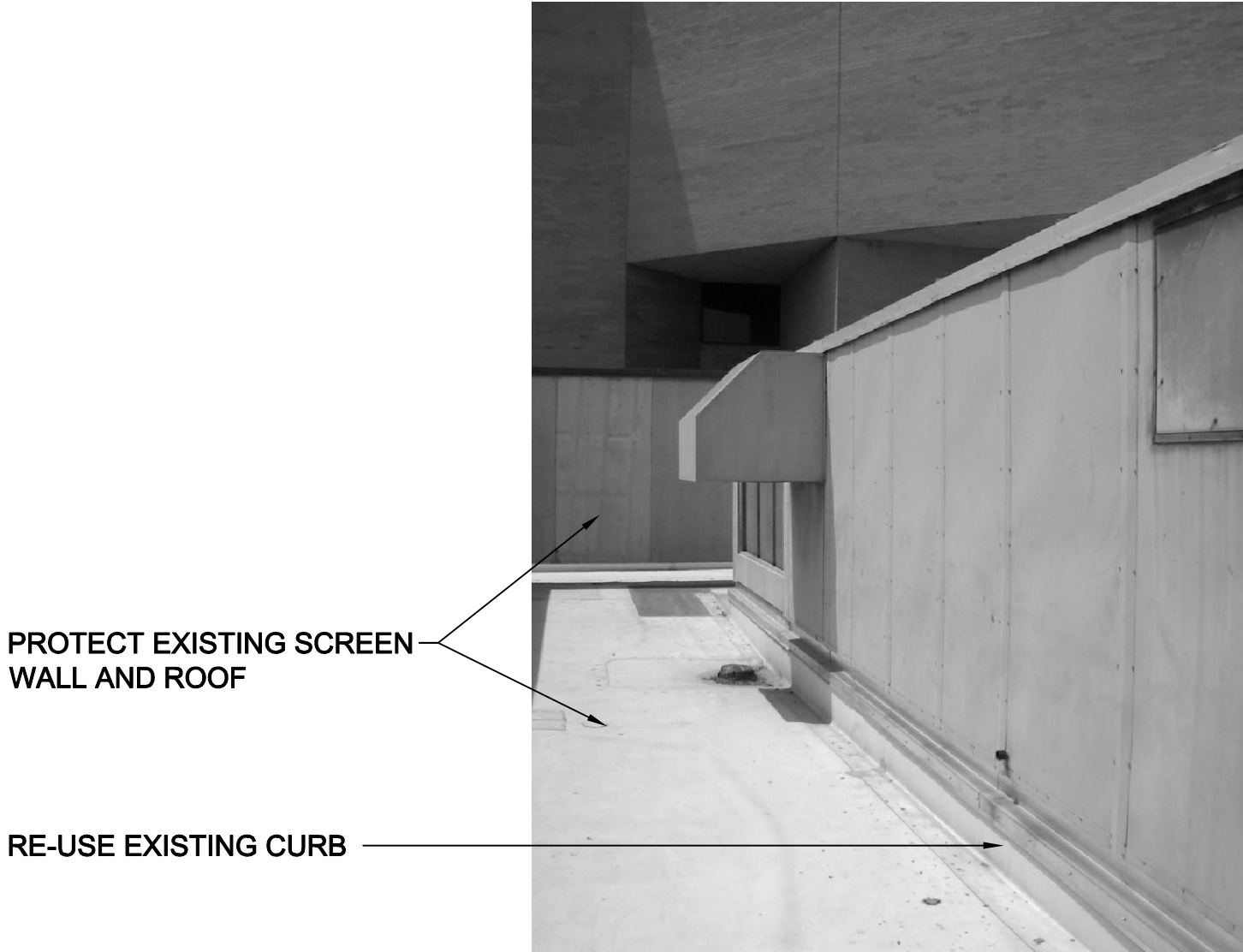
SHEET TITLE

MECHANICAL ROOF PLAN

SHEET NO.

ME101

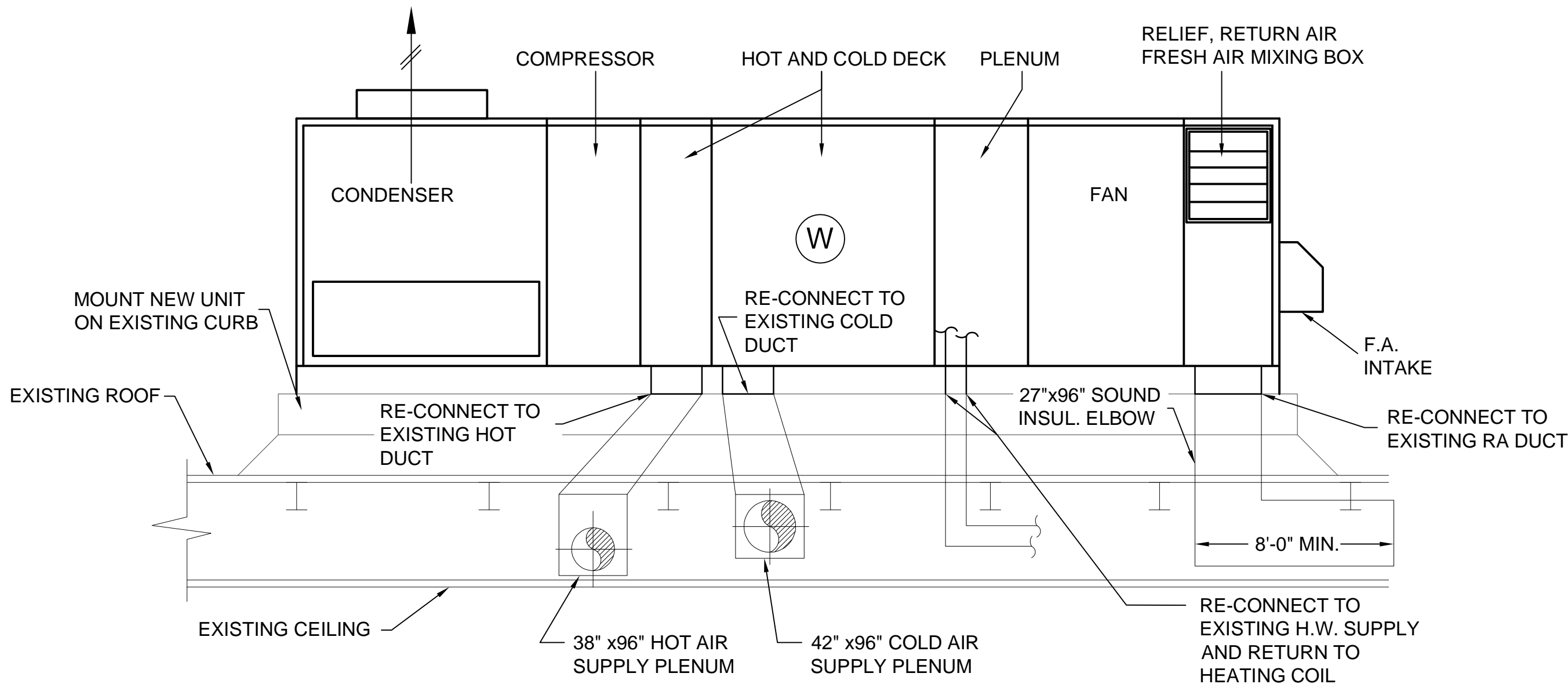
AIR HANDLER SCHEDULE																							
SYMBOL	MANUFACTURER & MODEL NUMBER	SA CFM	OSA CFM	ESP	HOT WATER HEATING COIL					DX COOLING			ELECTRICAL								EER/ IPLV	SCHEDULE NOTES	
					TOT. MIN. INPUT BTUH	GPM	EDB	LDB	WATER INLET TEMP	WATER OUTLET TEMP	AMB. AIR (DB)	AMB. AIR (WB)	MIN. TOTAL BTUH	V - Ø - Hz	SUPPLY FAN HP	RELIEF/EXHAUST FAN HP	COMPRESSOR #	COMPRESSOR RLA	COMPRESSOR LRA	MCA			MOCp
	GOVERNAIR TL5025	18900	4,000	3"	292,900	39	54.4°	90°	104°	89°	82.4°	63°	654,885	408/3/60	35	25	2	58/40	283 214			10.0/ 10.4	1,2,3,4
1. PROVIDE WITH UNIT CONTROLS FOR INTEGRATION INTO EXISTING BAS.																							
2. UNIT EFFICIENCIES MUST BE DOCUMENTED IN ACCORDANCE WITH ARI STANDARDS, AND ROCKY MOUNTAIN POWER ENERGY INCENTIVE REQUIREMENTS.																							
3. UNIT MUST LINE UP WITH EXISTING CURB, DUCTS, ETC. FIELD MEASURE AND VERIFY PRIOR TO SUBMITTALS.																							
4. PROVIDE WITH FACTORY INSTALLED VARIABLE FREQUENCY DRIVE AND DISCONNECT.																							



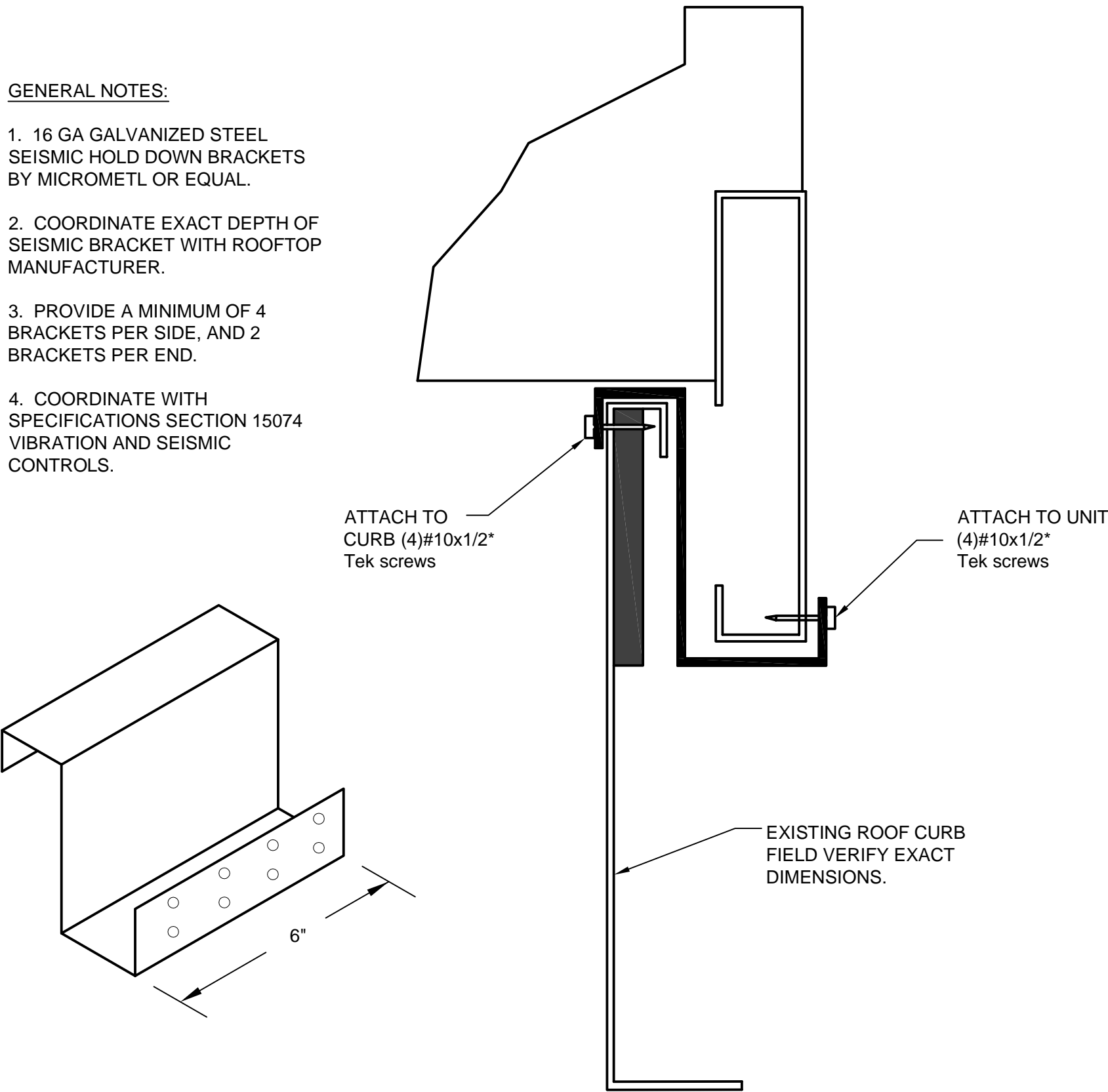
B2 EXISTING UNIT SOUTH SIDE
SCALE: NONE



B3 EXISTING UNIT NORTH SIDE
SCALE: NONE




A2 CAFETERIA ROOFTOP DUAL DUCT CONDITIONER DETAIL
SCALE: NONE



B4 ROOFTOP UNIT SEISMIC BRACKET DETAIL
SCALE: NONE

CONSULTANTS



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SALT LAKE CITY, UTAH 84106
(801) 466-4021, FAX 466-8536
EMAIL: excellence@whw-engineering.com

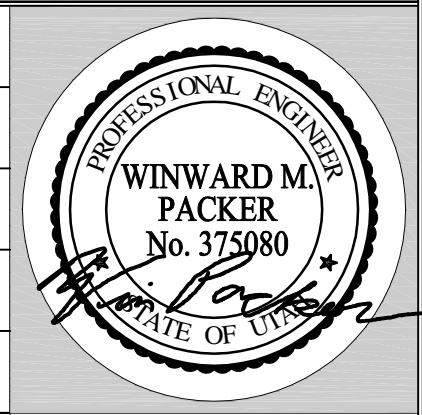
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BLDG CAFETERIA
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MECHANICAL SCHEDULES

SHEET NO.

ME601